#### CHEMICO-BIOLOGICAL INTERACTIONS

### SUBJECT INDEX

### **VOLUME 65 (1988)**

Acetaminophen, oxidative stress, erythrocytes, 15

N-Acetyl-S-pentachlorobutadienyl-L-cysteine, pig kidney cells, S-pentachlorobutadienyl glutathione, anion transport, cation transport, nephrotoxicity, 283

Active oxygen, N,N,N',N'-tetramethyl-pphenylenediamine, superoxide, hydrogen peroxide, hydroxyl radicals, 133

Adrenal zona fasciculata, DDT, methylsulphonyl-DDE, bioactivation, covalent binding, necrosis, 25

Alkylating agents, O\*-alkylguanine-DNAalkyltransferase, DNA repair, 275

O\*-alkylguanine-DNA-alkyltransferase, DNA repair, alkylating agents, 275

Allyl alcohol, hepatotoxicity, glutathione, periportal, hepatocytes, 107

Anion transport, pig kidney cells, S-pentachlorobutadienylglutathione, N-acetyl-Spentachlorobutadienyl-L-cysteine, cation transport, nephrotoxicity, 283

Anti-tumour, uptake, lipophilicity, bacteria, bacteriophage, 85

Aromatic hydroxylation, microsomes, rat, hepatocytes, 1-methyltetrahydro-β-carboline, chiral gas chromatography-mass spectrometry, 97

Bacteria, anti-tumour, uptake, lipophilicity, bacteriophage, 85

Bacteriophage, anti-tumour, uptake, lipophilicity, bacteria, 85

Bioactivation, DDT, methylsulphonyl-DDE, covalent binding, necrosis, adrenal zona fasciculata, 25

Biotransformation, red blood cell, hemoglobin, peroxidase activity, elliptinium acetate, 78

Bone marrow, reactive oxygen, polycyclic aromatic hydrocarbons, 281

Cadmium, glutathione, metallothioneins, Chinese hamster cells, 1

Calmidazolium, DDT, calmodulin, metabolic cooperation, 12-O-tetradecanoyl phorbol-13-acetate, 41

Calmodulin, DDT, metabolic cooperation, calmidazolium, 12-O-tetradecanoyl phorbol-13-acetate, 41

Cation transport, pig kidney cells, S-pentachlorobutadienyl glutathione, N-acetyl-S-pentachlorobutadienyl-L-cysteine, anion transport, nephrotoxicity, 283

CC-1065 (antitumor agent), DNA binding to oligomer duplexes, hairpin structures, 187 Chinese hamster cells, glutathione, cadmium,

metallothioneins, 1

Chiral gas chromatography-mass spectrometry, aromatic hydroxylation, microsomes, rat, hepatocytes, 1-methyltetrahydro-β-carboline, 97

Chlorinated hydrocarbons, cysteine conjugate β-lyase, mutagenicity, reactive intermediates, 59

Chlorophenoxyacids, induction, cytochrome P-450 IVA1, cytochrome P-452, fatty acid hydroxylase, 145

Cholesterol, 3-hydroxy-3-methylglutaryl coenzyme A reductase, polychlorinated biphenyls, y-hexachlorocyclohexane, rat liver, 175

Covalent binding, DDT, methylsulphonyl-DDE, bioactivation, necrosis, adrenal zona fasciculata, 25

Cysteine conjugate β-lyase, chlorinated hydrocarbons, mutagenicity, reactive intermediates, 59

Cytochrome P-450b, reactive oxygen species, quinones, hydroquinones, 247

Cytochrome P-450 IVA1, chlorophenoxyacids, induction, cytochrome P-452, fatty acid hydroxylase, 145

Cytochrome P-452, chlorophenoxyacids, induction, cytochrome P-450 IVA1, fatty acid hydroxylase, 145

- DDT, calmodulin, metabolic cooperation, calmidazolium, tetradecanoyl phorbol-13acetate, 41
- methylsulphonyl-DDE, bioactivation, covalent binding, necrosis, adrenal zona fasciculata, 25
- cis-Diamminedichloroplatinum(II), glutathione depletion, human ovarian carcinoma, 51
- 2,3-Dimethoxy-1,4-naphthoquinone, redox cycling, sulphydryl arylation, menadione, electron spin resonance, isolated hepatocytes, 157
- Dioxin, phthalates, peroxisome proliferation, lipid metabolism, hypolipidemia, 205
- DNA binding to oligomer duplexes, CC-1065 (antitumor agent), hairpin structures, 187
- DNA repair, O\*-alkylguanine-DNA-alkyltransferase, alkylating agents, 275
- Electron spin resonance, redox cycling, sulphydryl arylation, menadione, 2,3dimethoxy-1,4-naphthoquinone, isolated hepatocytes, 157
- Elliptinium acetate, red blood cell, hemoglobin, peroxidase activity, biotransformation, 73
- Erythrocytes, acetaminophen, oxidative stress, 15
- ESR spectroscopy, ethanol oxidation, free radicals, spin trapping, liver microsomes, 223
- Ethanol oxidation, free radicals, spin trapping, liver microsomes, ESR spectroscopy, 223
- Fatty acid hydroxylase, chlorophenoxyacids, induction, cytochrome P-450 IVA1, cytochrome P-452, 145
- Free radicals, ethanol oxidation, spin trapping, liver microsomes, ESR spectroscopy, 223
- Glutathione, allyl alcohol, hepatotoxicity, periportal, hepatocytes, 107
- cadmium, metallothioneins, Chinese hamster cells, 1
- Glutathione depletion, cis-diamminedichloroplatinum(II), human ovarian carcinoma, 51
- Hairpin structures, CC-1065 (antitumor agent), DNA binding to oligomer duplexes, 187
- Heat shock, oxidative stress, heat shock proteins, stress proteins, lipid peroxidation, 235

- Heat shock proteins, heat shock, oxidative stress, stress proteins, lipid peroxidation, 235
- Hemoglobin, red blood cell, peroxidase activity, elliptinium acetate, biotransformation, 73
- Hepatocytes, allyl alcohol, hepatotoxicity, glutathione, periportal, 107
- -, aromatic hydroxylation, microsomes, rat,
   1-methyltetrahydro-β-carboline, chiral gas chromatography-mass spectrometry, 97
- Hepatotoxicity, allyl alcohol, glutathione, periportal, hepatocytes, 107
- y-Hexachlorocyclohexane, 3-hydroxy-3-methylglutaryl coenzyme A reductase, polychlorinated biphenyls, cholesterol, rat liver, 175
- Human ovarian carcinoma, cis-diamminedichloroplatinum(II), glutathione depletion, 51
- Hydrogen peroxide, N,N,N',N'-tetramethyl-pphenylenediamine, superoxide, hydroxyl radicals, active oxygen, 133
- -, 5-(4-nitrophenyl)penta-2,4-dienal, superoxide anion, nitroreductase, 123
- Hydroquinones, cytochrome P-450b, reactive oxygen species, quinones, 247
- Hydroxyl radicals, N,N,N',N'-tetramethyl-pphenylenediamine, superoxide, hydrogen peroxide, active oxygen, 133
- 3-Hydroxy-3-methylgiutaryl coenzyme A reductase, polychlorinated biphenyls, hexachlorocyclohexane, cholesterol, rat liver, 175
- Hypolipidemia, dioxin, phthalates, peroxisome proliferation, lipid metabolism, 205
- Induction, chlorophenoxyacids, cytochrome P-450 IVA1, cytochrome P-452, fatty acid hydroxylase, 145
- Isolated hepatocytes, redox cycling, sulphydryl arylation, menadione, dimethoxy-1,4naphthoquinone, electron spin resonance, 157
- Lipid metabolism, dioxin, phthalates, peroxisome proliferation, hypolipidemia, 205
- Lipid peroxidation, heat shock, oxidative stress, heat shock proteins, stress proteins, 235
- Lipophilicity, anti-tumour, uptake, bacteria, bacteriophage, 85

- Liver microsomes, ethanol oxidation, free radicals, spin trapping, ESR spectroscopy, 223
- Menadione, redox cycling, sulphydryl arylation, 2,3-dimethoxy-1,4-naphthoquinone, electron spin resonance, isolated hepatocytes, 157
- Metabolic cooperation, DDT, calmodulin, calmidazolium, 12-O-tetradecanoyl phorbol-13-acetate, 41
- Metallothioneins, glutathione, cadmium, Chinese hamster cells, 1
- Methylsulphonyl-DDE, DDT, bioactivation, covalent binding, necrosis, adrenal zona fasciculata, 25
- Microsomes, aromatic hydroxylation, rat, hepatocytes, 1-methyltetrahydro-β-carboline, chiral gas chromatography-mass spectrometry, 97
- Methyltetrahydro-β-carboline, aromatic hydroxylation, microsomes, rat, hepatocytes, chiral gas chromatography-mass spectrometry, 97
- Mutagenicity, cysteine conjugate β-lyase, chlorinated hydrocarbons, reactive intermediates, 59
- Necrosis, DDT, methylsulphonyl-DDE, bioactivation, covalent binding, adrenal zona fasciculata, 25
- Nephrotoxicity, pig kidney cells, S-pentachlorobutadienyl glutathione, N-acetyl-Spentachlorobutadienyl-L-cysteine, anion transport, cation transport, 283
- 5-(4-Nitrophenyl)penta-2,4-dienal, superoxide anion, hydrogen peroxide, nitroreductase, 123
- Nitroreductase, 5-(4-nitrophenyl)penta-2,4dienal, superoxide anion, hydrogen peroxide, 123
- Oxidative stress, acetaminophen, erythrocytes, 15
- heat shock, heat shock proteins, stress proteins, lipid peroxidation, 235
- S-Pentachlorobutadienyl glutathione, pig kidney cells, N-acetyl-S--pentachlorobutadienyl-L-cysteine, anion transport, cation transport, nephrotoxicity, 283
- Periportal, allyl alcohol, hepatotoxicity, glutathione, hepatocytes, 107

- Peroxidase activity, red blood cell, hemoglobin, elliptinium acetate, biotransformation, 73
- Peroxisome proliferation, dioxin, phthalates, lipid metabolism, hypolipidemia, 205
- Phthalates, dioxin, peroxisome proliferation, lipid metabolism, hypolipidemia, 205
- Pig kidney cells, S-pentachlorobutadienyl glutathione, N-acetyl-S-pentachlorobutadienyl-L-cysteine, anion transport, cation transport, nephrotoxicity, 283
- Polychlorinated biphenyls, 3-hydroxy-3methylglutaryl coenzyme A reductase, yhexachlorocyclohexane, cholesterol, rat liver, 175
- Polycyclic aromatic hydrocarbons, bone marrow, reactive oxygen, 261
- Quinones, cytochrome P-450b, reactive oxygen species, hydroquinones, 247
- Rat, aromatic hydroxylation, microsomes, hepatocytes, 1-methyltetrahydro-β-carboline, chiral gas chromatography-mass spectrometry, 97
- Rat liver, 3-hydroxy-3-methylglutaryl coenzyme A reductase, polychlorinated biphenyls, y-hexachlorocyclohexane, cholesterol, 175
- Reactive intermediates, cysteine conjugate βlyase, chlorinated hydrocarbons, mutagenicity, 59
- Reactive oxygen, bone marrow, polycyclic aromatic hydrocarbons, 261
- Reactive oxygen species, cytochrome P-450b, quinones, hydroquinones, 247
- Redox cycling, sulphydryl arylation, menadione, 2,3-dimethoxy-1,4-naphthoquinone, electron spin resonance, isolated hepatocytes, 157
- Red blood cell, hemoglobin, peroxidase activity, elliptinium acetate, biotransformation, 73
- Spin trapping, ethanol oxidation, free radicals, liver microsomes, ESR spectroscopy, 223
- Stress proteins, heat shock, oxidative stress, heat shock proteins, lipid peroxidation, 235

Sulphydryl arylation, redox cycling, menadione, 2,3-dimethoxy-1,4-naphthoquinone, electron spin resonance, isolated hepatocytes, 157

Superoxide, N,N,N',N'-tetramethyl-p-phenylenediamine, hydrogen peroxide, hydroxyl

radicals, active oxygen, 133

Superoxide anion, 5-(4-nitrophenyl)penta-2,4dienal, hydrogen peroxide, nitroreductase, 123

- 12-O-Tetradecanoyl phorbol-13-acetate, DDT, calmodulin, metabolic cooperation, calmidazolium, 41
- N, N, N', N'-Tetramethyl-p-phenylenediamine, superoxide, hydrogen peroxide, hydroxyl radicals, active oxygen, 133

Uptake, anti-tumour, lipophilicity, bacteria, bacteriophage, 85

# CHEMICO-BIOLOGICAL INTERACTIONS

## AUTHOR INDEX

## **VOLUME 65 (1988)**

Ahlborg, U.G.	41	Martinez, M.	97
Albano, E.	223	Mason, R.P.	123, 157
Andrews, P.A.	51	Melnick, R.L.	205
Atwell, G.J.	85	Mertens, J.J.W.M.	283
Auclair, C.	73	Meunier, B.	73
		Montgomery, C.A.	205
Bacher, M.A.	145	Moreno, S.N.J.	123
Baguley, B.C.	85	Morimoto, K.	275
Beck, O.	97	Mulder, G.J.	15
Bergman, Å	25	Müller, F.	247
Bernadou, J.	73	Munday, R.	133
Berndt, J.	175	Murphy, M.P.	51
Bernelli-Zazzera, A.	235	• • •	-
Berthold, K.	59		
Brandt, I.	25	Ochi, T.	1
		Ohsawa, M.	1
Cajone, F.	235	Otsuka, F.	1
Cohen, G.M.	157		
Dekant, W.	59	Pegg, A.E.	275
Dianzani, M.U.	223	Penttilä, K.E.	107
Docampo, R.	123	Prairie, M.D.	187
Dolan, M.E.	275		
Drakenberg, TB.	41		
		Rao, D.N.R.	157
Flodström, S.	41	Repke, D.B.	97
Fransson, R.	41	Robertson, I.G.C.	88
Gibson, G.G.	145		
Goria-Gatti, L.	223	Schiefer, M.A.	5:
Grant, T.W.	157	Spenkelink, B.	283
На, Т.	73		
Henschler, D.	59	Takahashi, K.	
Howell, S.B.	51	Temmink, J.H.M. Thériault, N.Y.	28 18
Jenke, HS.	175	Tomasi, A.	22
Jernström, B.	97	Tomaszewski, K.E.	20
	3.	Trush, M.A.	26
Krueger, W.C.	187	Twerdok, L.E	26
Löwel, M.	175	Vamvakas, S.	5
Lund, BO.	25	· mai raman) is	9

Van der Zee, J.	15	Voncken, J.W.	247
van Doorn, W.J.	283		
van Ommen, B.	247		
van Steveninck, J.	15	Wärngard, L.	41
Voisin, E.	73	Weijnen, J.G.J.	283

